Recombinant eIF4G1 Monoclonal Antibody

catalog number: **AN301953L**

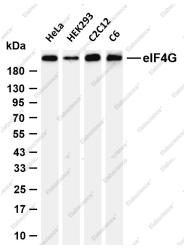
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human;Mouse;Rat
Immunogen	The specific immunogen used to produce this antibody is proprietary information
Host	Rabbit
Isotype	Rabbit IgG
Clone	C111574
Purification	Protein A affinity purification
Conjugation	Unconjugated
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications	Recommended Dilution
WB	1:2000-1:10000
IHC	1:200-1:1000
IF	1:200-1:1000
ELISA	1:5000-1:20000

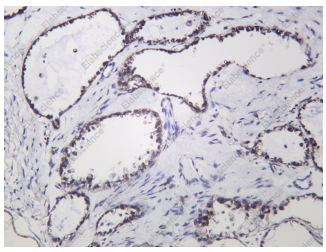
Data



Western blot analysis of HeLa, HEK293, C2C12 and C6 cell lysates using eIF4G1 Antibody (AN301953L).

Observed-MW:250 kDa

Calculated-MW:175 kDa



Immunohistochemical analysis of paraffin-embedded Human ovarian carcinoma sections using eIF4G1 Antibody (AN301953L).

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze/thaw cycles.
Shipping	Ice bag

Background

The initiation of translation is an important biological event and a variety of factors contribute to this process. Members of the eIF4 translation initiation factor family bind to the 5' m7GTP mRNA cap and unwind the mRNA secondary structure. The amino-terminal portion of eIF4G physically associates with eIF4E to stimulate the binding of eIF4E to the mRNA cap structure. eIF4G also interacts with eIF3 and eIF4A and serves as an adaptor molecule in the eIF4 complex. Moreover, eIF4G plays a role in internal ribosomal entry site (IRES)-mediated initiation of translation. The eIF4G family includes eIF4G1 (eIF4GI), eIF4G2 (p97, DAP5 or NAT1), and eIF4G3 (eIF4GII). These factors share a homologous sequence that provides for interaction with initiation factors eIF3 and eIF4A. Both eIF4G1 and eIF4G3 are involved in cap-dependent translation, while eIF4G2 plays a role in IRES-mediated translation of some genes during cell stress.

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